

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2005/009343

## A. CLASSIFICATION OF SUBJECT MATTER

C07K16/06 B01D15/26 B01D15/38 B01D15/36

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C07K B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JOSIC-D ET AL.: "Analytical and preparative methods for purification of antibodies"	1
Y	FOOD TECHNOL BIOTECHNOL, vol. 39, no. 3, 2001, page 215-226, XP002357256 page 221 page 219 the whole document	1-21

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*G\* document member of the same patent family

Date of the actual completion of the international search

16 January 2006

Date of mailing of the international search report

02/02/2006

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
✓ X	FAHRNER R L ET AL: "INDUSTRIAL PURIFICATION OF PHARMACEUTICAL ANTIBODIES: DEVELOPMENT, OPERATION, AND VALIDATION OF CHROMATOGRAPHY PROCESSES" BIOTECHNOLOGY AND GENETIC ENGINEERING REVIEWS, INTERCEPT LTD., ANDOVER, GB, vol. 18, July 2001 (2001-07), pages 301-327, XP008034714 ISSN: 0264-8725	1
Y	the whole document	1-21
✓ P, X	WO 2004/076485 A (LONZA BIOLOGICS PLC; BONNERJEA, JULIAN; PRENETA, ANNA) 10 September 2004 (2004-09-10) the whole document	1-21
✓ Y	US 6 399 750 B1 (JOHANSSON INGEMAR) 4 June 2002 (2002-06-04) cited in the application the whole document	1-21
✓ A	BLANK G S ET AL: "EXPANDED BED ABSORPTION IN THE PURIFICATION OF MONOCLONAL ANTIBODIES: A COMPARISON OF PROCESS ALTERNATIVES" BIOSEPARATION, KLUWER ACADEMIC PUBLISHERS, DORDRECHT, NL; vol. 10, no. 1-3, 2001, pages 65-71, XP008031348 ISSN: 0923-179X the whole document	1
✓ A	EP 0 289 129 A (REPLIGEN CORPORATION) 2 November 1988 (1988-11-02) cited in the application the whole document	1-21
✓ A	FUGLISTALLER P: "COMPARISON OF IMMUNOGLOBULIN BINDING CAPACITIES AND LIGAND LEAKAGE USING EIGHT DIFFERENT PROTEIN A AFFINITY CHROMATOGRAPHY MATRICES" JOURNAL OF IMMUNOLOGICAL METHODS, vol. 124, no. 2, 1989, pages 171-178, XP009058039 ISSN: 0022-1759 abstract	1-21
	-/-	

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
✓ A	<p>"rmp protein A sepharose fast flow"  DOWNSTREAM THIRTY TWO 18-1145-45, 'Online!  2002, XP002357257  Retrieved from the Internet:  URL: <a href="http://www.jp.amershambiosciences.com/newsletter/downstream/pdf/downstream32.pdf">http://www.jp.amershambiosciences.com/newsletter/downstream/pdf/downstream32.pdf</a>  &gt; 'retrieved on 2005-12-01!  the whole document  page 12</p>	1-21
✓ A	<p>IYER H ET AL: "CONSIDERATIONS DURING  DEVELOPMENT OF A PROTEIN A-BASED ANTIBODY  PURIFICATION PROCESS"  BIOPHARM, CLEVELAND, OH, US,  vol. 15, no. 1, 2002, pages 14-16, 18, 20, 5,  XP008043499  the whole document</p>	1-21
✓ A	<p>EP 0 345 549 A (MILES INC)  13 December 1989 (1989-12-13)  cited in the application  claims 1-8  the whole document</p>	1-21
✓ A	<p>GAGNON P: "AFFINITY CHROMATOGRAPHY: THE  FINE PRINT"  VALIDATED BIOSYSTEMS QUARTERLY RESOURCE  GUIDE FOR DOWNSTREAM PROCESSING, 1999,  XP002315700  the whole document  abstract</p>	1-21
✓ A	<p>BONNERJEA JULIAN: "Purification of  therapeutic proteins."  METHODS IN MOLECULAR BIOLOGY (CLIFTON,  N.J.) 2004,  vol. 244, February 2004 (2004-02), pages  455-462, XP009057988  ISSN: 1064-3745  the whole document</p>	1-21
✓ A	<p>"Antibody purification (Handbook,  18-1037-46, Edition AC)"  2002, AMERSHAM BIOSCIENCE, XP002357261  the whole document</p>	1-21
✓ A	<p>NARHI LINDA O ET AL: "Effect of three  elution buffers on the recovery and  structure of monoclonal antibodies"  ANALYTICAL BIOCHEMISTRY,  vol. 253, no. 2,  15 November 1997 (1997-11-15), pages  236-245, XP002357750  ISSN: 0003-2697</p>	1-21

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Information on patent family members

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